

# **OPERATOR'S MANUAL**

### **MULTI-PURPOSE LCD DISPLAY**

MODEL MU-120C



# **A** SAFETY INSTRUCTIONS

Safety Instructions for the Operator

Safety Instructions for the Installer

### **⚠ WARNING**



Do not open the equipment.

Only qualified personnel should work inside the equipment.

Do not disassemble or modify the equipment.

Fire, electrical shock or serious injury can result.

Use the proper fuse and power cable.

Fuse rating is shown on the equipment. Use of a wrong fuse can result in damage to the equipment.

Immediately turn off the power at the switchboard if the equipment is emitting smoke or fire.

Continued use of the equipment can cause fire or electrical shock. Contact a FURUNO agent for service.

### **A** CAUTION

Do not connect/disconnect the signal cable while turning the power on.

The unit may be damaged.

A warning label is attached to the equipment. Do not remove the label. If the label is missing or damaged, contact a FURUNO agent or dealer.

	NG 🛕
To avoid electrical s remove cover. No us parts inside.	shock, do not ser-serviceable
A	$\triangle$

Name: Warning Label (1) Type: 86-003-1011-1 Code No.: 100-236-231

### **⚠ WARNING**



Do not open the cover unless totally familiar with electrical circuits and service manual.

Improper handling can result in electrical shock.

Turn off the power at the switchboard before beginning the installation.

Fire or electrical shock can result if the power is left on.

Do not install the equipment where it may get wet from rain or water splash.

Water in the equipment can result in fire, electrical shock or damage to the equipment.

#### **↑** CAUTION

Observe the following compass safe distances to prevent interference to a magnetic compass:

	Standard compass	Steering compass
LCD Monitor MU-120C	0.75 m	0.5 m
Remote Controller RMC-200	0.3 m	0.3 m

When lifting the display unit, hold it together with the cover.

Grasping by the cover alone may allow the display unit to fall, resulting in possible bodily injury or damage to the equipment.

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### **FOREWORD**

### A Word to the Owner of the MU-120C

FURUNO Electric Company thanks you for purchasing the MU-120C 12.1" Multi-Purpose LCD Display. We are confident you will discover why the FURUNO name has become synonymous with quality and reliability.

For over 50 years FURUNO Electric Company has enjoyed an enviable reputation for quality and reliability throughout the world. This dedication to excellence is furthered by our extensive global network of agents and dealers.

Your equipment is designed and constructed to meet the rigorous demands of the marine environment. However, no machine can perform its intended function unless properly installed and maintained. Please carefully read and follow the operation, installation and maintenance procedures set forth in this manual.

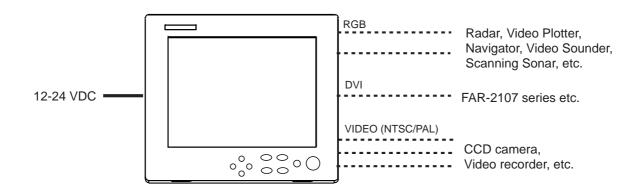
We would appreciate feedback from you, the end-user, about whether we are achieving our purposes.

Thank you for considering and purchasing FURUNO.

#### **Features**

- Main or remote display for radars, video sounders, sonars, plotter. Compatible equipment: FAR-21X7 series, MODEL1833C/1833C-BB series (NavNet), FCV-1200L, CH-250, CH-270, CSH-5L/8L, GD/GP-280/380/680, etc.
- High resolution display of 800 x 600dot (SVGA)
- Brightness of 1,000 cd/m<sup>2</sup> (maximum) and 5 cd/m<sup>2</sup> (minimum) for comfortable viewing day and night
- Landscape orientation
- Wide viewing angle for observation by more than one person
- Picture-in-picture function

### SYSTEM CONFIGURATION



#### Connectable equipment

Equipment	Resolution	Signal
FR-1510 MK3 series	XGA	Analog
FCV-1200L*	VGA	Analog, via IF8000
GD/GP-280/380/680	VGA	Analog
CH-250	VGA	Analog, via IF8000
CH-270	VGA	Analog, via IF8000
CSH-5L/8L	XGA	Analog
FSV-24/24S/30/30S	SXGA	Analog
FR-21X5 series	SXGA	Analog
FAR-21X7 series	SXGA	DVI
FEA-2107	SXGA	DVI
MODEL 1833C series	VGA	Analog
MODEL 1833C-BB series	VGA	Analog

<sup>\*=</sup> Not available for the portrait type.

**Note:** The resolution of MU-120C is SVGA. VGA, XGA and SXGA signal may not be sharp in character or scan line.

#### About the TFT LCD –

The TFT LCD is constructed using the latest LCD techniques, and displays 99.99% of its pixels. The remaining 0.01% of the pixels may drop out or blink, however this is not an indication of malfunction.

# **EQUIPMENT LISTS**

### Standard supply

Name	Туре	Code No.	Qty	Remarks
Display Unit	MU-120C	_	1	w/LCD cover
Remote Controller	RMC-200	000-012-629	1	
Spare Parts*	SP19-00101	001-403-170	1 set	
Installation Materials*	CP19-00100	000-012-630	1 set	Power cable
Accessories*	FP19-00601	001-403-200	1 set	

### Option

Name	Туре	Code No.	Qty	Remarks
Hanger	FP19-00700	001-403-240	1	w/knob, self-tapping screws
	3COX-2P-6C		1	Cable length: 5 m
Cable Assy	3COX-2F-0C	000-146-501	1	Cable length: 10 m
	DVI-D/D SINGLELINK5M	000-149-054	1	Cable length: 5 m
Remote Controller	RMC-200	000-012-629	1	

<sup>\* =</sup> See packing list at end of manual.



### 1 MOUNTING

Refer to the outline drawing at the end of the manual for mounting dimensions.

**Note**: A grass plate covers the LCD. For this reason, handle the unit carefully.

### 1.1 Display Unit

The display unit may be mounted on a desktop (optional hanger required) or flush mounted in a panel.

When selecting a mounting location, keep in mind the following points:

- Locate the unit out of direct sunlight.
- Select a location where the display can be easily viewed and the controls can be easily operated.
- Leave sufficient space around the unit for servicing and maintenance. See the outline drawing for minimum servicing space.
- The unit weighs 5.4 kg (flush mounting)/6.3 kg (desktop mounting). Be sure the mounting location is strong enough to support the weight of the unit.
- Locate the unit away from areas subject to water splash and rain.

#### Flush mounting

See the outline drawing at the end of the manual for mounting dimensions.

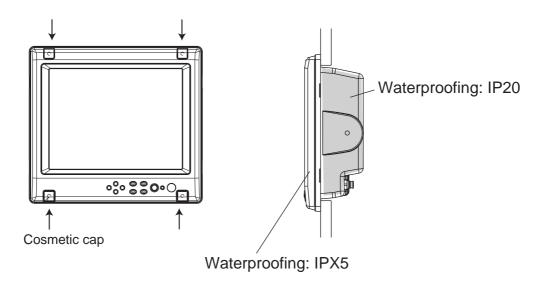
### **A** CAUTION

Hold the cover and display unit together when lifting the display unit.

The display unit may fall out if only the cover is held.

- 1. Remove the LCD cover from the unit.
- 2. Using the paper template supplied in the installation materials, make a cutout in the mounting location.
- 3. Insert the display unit to the cutout, and fasten the display unit to the mounting location with four self-tapping screws (5x40, supplied as accessories).

**Note:** Hex head bolts may also be used to fasten the display unit. However, their lengths should be such that they extend at least 10 mm beyond the bulkhead.



Mounting dimensions

4. Attach the cosmetic caps (supplied as accessories) to the display unit at the locations shown in the drawing above.

#### **Desktop mounting**

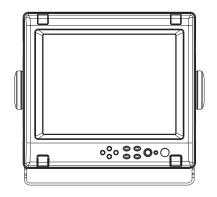
The display unit can be mounted on a desktop, using the optional hanger,

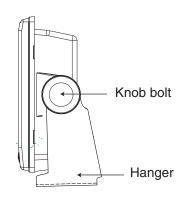
Type: FP19-00700, Code No.: 001-403-240.

#### Contents of hanger mounting kit

Name	Туре	Code No.	Qty
Hanger	FP19-00701	001-403-250	1
Knob bolt	FP19-01402	001-026-770	2
Self-tapping screw	5x20	000-162-608-10	4

- 1. Fasten the hanger to the mounting location with four self-tapping screws (supplied).
- 2. Screw knob bolts in hanger, set unit to hanger, and tighten knob bolts.
- 3. Attach hard cover to protect the LCD.

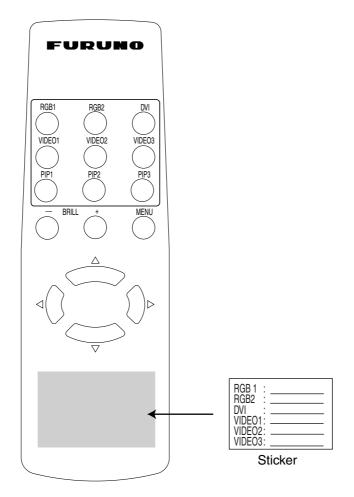




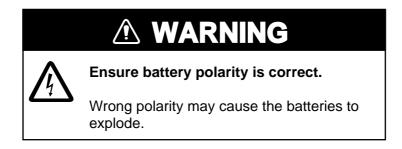
Desktop mounting

#### 1.2 Remote Controller

Write the device name (ex. "FCV-1200L") for each "signal" key on the sticker supplied with the remote controller. Attach the sticker to the remote controller, at the location shown below.

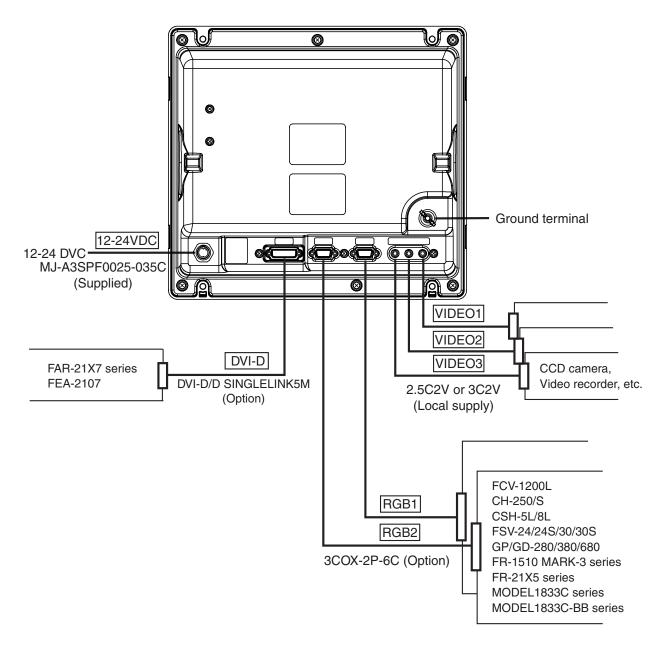


Remote controller RMC-200



### 2 WIRING

Connect external equipment to the MU-120C by referring to the drawings below, the table on the next page and the interconnection diagram at the back of this manual.



Display unit, rear view

#### Port, cable and connectable equipment

Port	Used cable				
Name	Name	Туре	Code No.	Standard/ Option	Connectable Equipment
12-24 VDC	Power cable	MJ-A3SPF0025- 035C	000-156-059- 10	Standard	Power source
DVI-D	DVI Cable	DVI-D/D SINGLELINK5M	000-149-054	Option	PC, FAR-21X7 series, FEA-2107
RGB1	Analog RGB	3COX-2P-6C 5M	000-146-500	Option	FCV-1200L, CH-250, CH-270, CSH-5L/8L, FSV-24/24S/30/30S, GD-280/380/680, FR1510Mk-3,
RGB2	Cable	3COX-2P-6C 10M	000-146-501	Option	FR-21X5 series, Model 1833C series, Model 1833C-BB series
VIDEO1	<ul><li>Connector</li><li>Cable ler</li><li>2.5C2V or</li></ul>	<ul> <li>Prepare the following cable locally.</li> <li>Connector type: RCA (metal), both ends</li> <li>Cable length: shorter than 10 m</li> <li>2.5C2V or 3C2V (Japan Industrial Standard, or the equivalent) coaxial cable (Impedance: 75 Ω)</li> </ul>			
VIDEO2		Cable 3C2V Insulator Shield		Video cassette recorder, CCD camera, DVD player	
VIDEO3		Vinyl sheath  Conductor $S = 0.19 \text{ mm}^2$ $\emptyset = 0.5 \text{ mm}$			

#### Grounding

Fasten the ground wire (local supply) between the ground terminal on the display unit and the ship's superstructure. The length should be as short as possible.

**Note:** Use a "closed-type" lug ( ) to make the ground connection at the display unit. Do not use an "open-type" lug ( ).

### 3 ADJUSTMENTS

Adjust the MU-120C according to the equipment connected. Note that you can adjust the display currently selected, at the DISP selection window. (See section 4.3.)

#### 3.1 RGB/DVI Setting

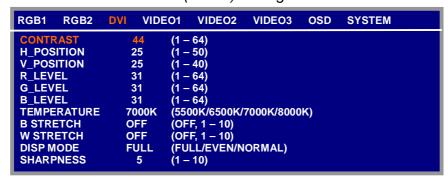
RGB1 and RGB2 screens can be adjusted independently. Also, DVI screen can be adjusted similarly.

- 1. Press the [MENU] key to show the main menu.

  The main menu is erased automatically with no operation for one minute.
- 2. Press the [◀] or [▶] key to select RGB1, RGB2 or DVI as appropriate.

```
DVI
                      VIDE01
                                 VIDEO2
                                           VIDEO3
                                                      OSD
                                                             SYSTEM
H SIZE
                    640
V_SIZE
PHASE
                     16
                            (1 - 32)
H_POSITION
                     50
  POSITION
                     25
                     31
G LEVEL
                     31
  LEVEL
                     31
TEMPERATURE
                             (5500K/6500K/7000K/8000K)
                    7000K
                            (OFF, 1 – 10)
(OFF, 1 – 10)
(FULL/EVEN/NORMAL)
 STRETCH
                    OFF
W STRETCH
DISP MODE
                    FULL
SHARPNESS
                            (1 - 10)
                      5
```

RGB1 (RGB2) setting menu



DVI setting menu

- Press the [▲] or [▼] key to select the item to adjust.
- 4. Press the [◀] or [▶] key to adjust.

Menu item	Function	Setting range
H_SIZE***	Adjusts the image size horizontally.	Variable depending on
V_SIZE***	Adjusts the image size vertically.	signal type
PHASE	Adjusts the characters and graphic lines.	1-32
CONTRAST	Increases or decrease contrast level.	1-64
H_POSITION	Moves the image position horizontally.	1-50 (DVI), 1-99 (RGB1, 2)
V_POSITION	Moves the image position vertically.	1-40
R_LEVEL	Adjusts red color level.	1-64
G_LEVEL	Adjusts green color level.	1-64
B_LEVEL	Adjusts blue color level.	1-64
TEMPERATURE	Adjusts color temperature.	5500K/6500K/7000K/8000K*
B STRETCH	Reduces noise on black color.	OFF, 1-10
W STRETCH	Emphasizes white color.	OFF, 1-10
DISP MODE	Selects the signal resolution.  FULL: Shows the input signal on entire screen.  EVEN: Shows the input signal with original size.  NORMAL: Shows the input signal with same aspect ratio.	FULL/EVEN/NORMAL**
SHARPNESS	Sharpens the edge horizontally.	1-10

<sup>\*:</sup> Warm color← 5500K, 6500K, 7000K, 8000K → Cold color

Note: When the characters are not clear, adjust PHASE and SHARPNESS.

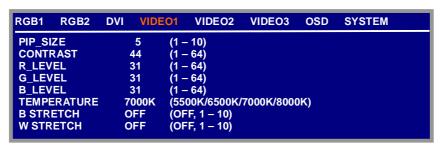
<sup>\*\*:</sup> Select NORMAL to use the SXGA signal from a radar or scanning sonar. Note that both left and right edges may be in black. For VGA and XGA signals, FULL and NORMAL are available.

<sup>\*\*\*:</sup> Adjust H\_SIZE and V\_SIZE properly. Otherwise, unwanted image may appear outside of the display area.

### 3.2 VIDEO Setting

VIDEO1, VIDEO2 and VIDEO3 screens; that is, the picture-in-picture windows can be adjusted as below.

- 1. Press the [MENU] key to show the menu.
- 2. Press [◀] or [▶] to select VIDEO1, VIDEO2 or VIDEO3 as appropriate.



VIDEO1 (2 or 3) setting menu

- 3. Press the  $[\blacktriangle]$  or  $[\blacktriangledown]$  key to select the item to adjust.
- 4. Press the [◀] or [▶] key to set.

Menu item	Function	Available range
PIP SIZE	DID CIZE Adjusts the size of nicture in nicture window	
PIP_SIZE	Adjusts the size of picture-in-picture window.	10 (160 mmx129mm)
CONTRAST	Increases or decrease contrast level.	1-64
R_LEVEL	Adjusts red color level.	1-64
G_LEVEL	Adjusts green color level.	1-64
B_LEVEL	Adjusts blue color level.	1-64
TEMPERATURE	Adjusts color temperature.	5500K/6500K/7000K/8000K
B STRETCH	Reduces noise on black color.	OFF, 1-10
W STRETCH	Emphasizes white color.	OFF, 1-10





Picture-in-picture window

### 3.3 Menu Window Setting

#### 3.3.1 Adjusting the menu window

The menu window can be moved and translucentized on the OSD (On Screen Display) menu.

- 1. Press the [MENU] key to show the menu.
- 2. Press the [◀] or [▶] key to select OSD.



OSD menu

- 3. Press [▲] or [▼] to select the menu item you want to adjust.
- 4. Press [◀] or [▶] to adjust.

Menu item	Function	Available range
H_POSITION	Moves the menu window horizontally.	1-22 (1: left, 22: right)
V_POSITION	Moves the menu window vertically.	1-23 (1: up, 23: down)
TRANSLUCENT	Translucentizes the menu window.	Off, On
CUSTOM NAME	See the next section.	

#### 3.3.2 Changing the signal name

You can change the signal name which is shown on the DISP or PIP menu, described in the next chapter. It is useful to use the name of the device connected (ex. "FCV-1200L"). For detailed information about these menus, see Chapter 4.

- 1. Press the [MENU] key to show the main menu.
- 2. Press the [▶] key to choose the OSD menu.



OSD menu

- 3. Press the [▲] or [▼] key to select the signal to change its name in CUSTOM NAME area. In the example above, RGB1 is chosen.
- 4. Press the [▶] key to select the character you want to change. In the example below, "G" is selected.



5. Press the [▲] or [▼] key to select appropriate alphanumeric character. In the example below, "5" is selected.

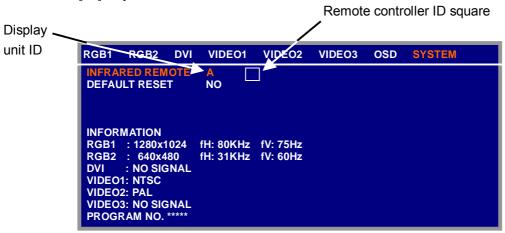


6. To change another signal name, press [◀] and then press [▲] or [▼] to select it.

#### 3.4 Remote Controller Setting

A remote controller can be set to be operative with a specific display unit, in the case of multiple MU-120C display units. Set the remote controller mode desired on the SYSTEM menu as follows;

- 1. Press the [MENU] key to show the main menu.
- 2. Press the [▶] key to select SYSTEM.



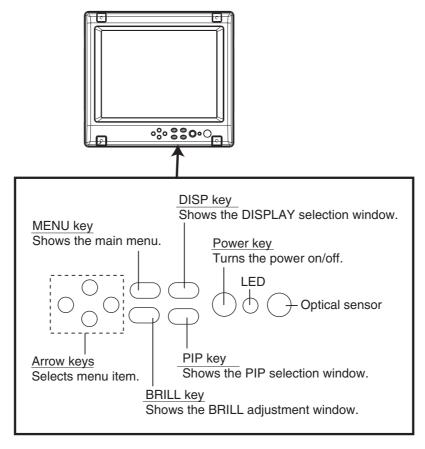
SYSTEM menu

- 3. Select INFRARED REMOTE.
- 4. Point the remote controller toward the display unit, and press any key on the remote controller. The current setting of remote controller is shown inside the remote controller setting square.
- Press the [RGB2] and [BRILL +] keys together on the remote controller to change the remote controller ID among A, B, C and D. Your selection appears inside the square.
- Press the [◄] or [►] key so that the display unit ID is the same as the remote controller ID in the square.
- 7. Press the [MENU] key to close the menu.

## 4 OPERATION

#### 4.1 Controls

#### **Display unit**



Display unit

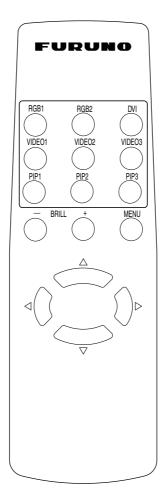
Power key: Press the power key ((1)) to turn the power on or off.

LED: The LED changes color according to signal status as below.

Green: The selected signal to be displayed is input correctly from the external device.

Orange: The selected signal to be displayed is not input from the external device for five seconds.

#### Remote controller



Remote controller

Key name	Function
RGB1*	Shows the RGB1 signal.
RGB2*	Shows the RGB2 signal.
DVI	Shows the DVI signal.
VIDEO1**	Shows the VIDEO1 signal on the entire screen.
VIDEO2**	Shows the VIDEO2 signal on the entire screen.
VIDEO3**	Shows the VIDEO3 signal on the entire screen.
PIP1***	Shows the VIDEO1 signal in the picture-in-picture window.
PIP2***	Shows the VIDEO2 in the picture-in-picture window.
PIP3***	Shows the VIDEO3 in the picture-in-picture window.
BRILL (+)	Increases the display brilliance.
BRILL (-)	Decreases the display brilliance.
MENU	Shows the main menu.
Arrow keys	Selects the menu items.

<sup>\*:</sup> When a picture-in picture window is shown, it remains on the RGB1 (2).

For PIP (picture-in-picture), see "3.2 VIDEO Setting".

<sup>\*\*:</sup> When the previous selection is PIP1, 2 or 3, it is erased by pressing these keys.

<sup>\*\*\*:</sup> When the previous selection is VIDEO1, 2 or 3, these keys are not available.

### 4.2 Adjusting Display Brilliance

The display brilliance can be adjusted as follows.

1. Press the [BRILL] key on the display unit to show the BRILL adjustment window.



BRILL window

- 3. Press the [◄] or [▶] key to adjust the brilliance. (Setting range: 1 to 50) You can also adjust brilliance by pressing the [BRILL] key.
- Press the [▲] or [▼] key to close the window.
   The window is erased when there is no operation within five seconds.

**Note:** Avoid excessively low brilliance to prevent display irregularities.

### 4.3 Choosing Source for Main Picture

Choose the signal to display on the entire screen as follows:

Press the [DISP] key to show the DISP selection window.
 Signal names can be changed. For detail, see "3.3.2 Changing the signal name".



DISP selection window

2. Press the [▲] or [▼] key to select a signal.

You can also select the signal by pressing the [DISP] key continuously.

RGB1-2: The signal from the chosen RGB port is displayed on the entire screen.

DVI: The signal from the DVI port is displayed on the entire screen.

VIDEO1-3: The external video from the appropriate VIDEO port is displayed on the

entire screen.

3. Press the [◀] or [▶] key to close the window.

The window is erased when there is no operation within five seconds.

**Note:** The name of the selected signal appears at the right top corner for five seconds after the DISP menu is erased.

### 4.4 Choosing Source for Picture-in-Picture

Choose the source for the picture-in-picture window as follows:

**Note:** The size of the picture-in-picture window can be adjusted on the VIDEO1, 2 and 3 menus. For details, see section 3.2.

With the RGB1, RGB2 or DVI display shown, press the [PIP] key.
 The PIP selection window appears. Signal names can be changed. For detail, see "3.3.2 Changing the signal name".

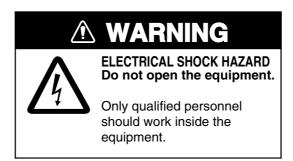


PIP window

- Press the [▲] or [▼] key to select the VIDEO port desired.
   VIDEO can be also selected by pressing the [PIP] key continuously. To turn off the picture-in-picture window, choose OFF.
- 3. Press the [◀] or [▶] key to close the window.

**Note:** The picture-in-picture window can be moved by pressing the arrow keys when a menu window is erased.

# 5 MAINTENANCE, TROUBLESHOOTING



#### 5.1 Maintenance

#### Routine maintenance

Regular maintenance is important for good performance. Check the following on a regular basis to keep the equipment in good operating condition.

- Check that the connectors at the rear of the display unit are tightly fastened.
- Check the ground wire and ground terminal for rust. Clean if necessary. Confirm that the ground wire is tightly fastened.
- Remove dust and dirt from the display unit and LCD with a dry, soft cloth. Do not use chemical cleaners to clean any part of the display unit – they can remove paint and markings.
- Wipe the LCD carefully to prevent scratching, using tissue paper and an LCD cleaner. To remove dirt or salt deposits, use an LCD cleaner, wiping slowly with tissue paper so as to dissolve the dirt or salt. Change paper frequently so the salt or dirt will not scratch the LCD. Do not use solvents such as thinner, acetone or benzene for cleaning.

#### **Fuse replacement**

The 7 A fuse in the power cable protects the equipment from internal fault and overcurrent. If the fuse blows, find the cause before replacing it. If the fuse blows again after replacement, request service.



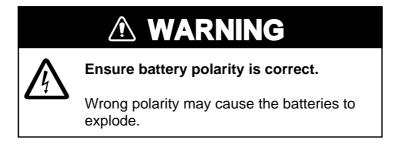
Use the proper fuse.

Use of a wrong fuse can cause fire or damage to the equipment.

#### **Battery replacement**

The remote controller has two AA batteries. If the distance from which the remote controller can be operated has decreased, change the battery.

**Note:** Replace all batteries together. Do not mix old and new batteries.



### 5.2 Troubleshooting

The table below provides troubleshooting procedures to use when no picture appears. If you cannot restore the picture, do not attempt to check inside the equipment – there are no user serviceable parts inside. Refer any work to a qualified technician.

Troubleshooting table

Reason for no picture	Remedy
Ship's battery voltage too high	Check battery voltage.
Fuse has blown.	Replace fuse.
Cable between MU-120C and external equipment has loosened.	Refasten cable.
Power cable has loosened.	Refasten cable.

You can confirm which signals are currently input in the SYSTEM menu.



SYSTEM menu

### **5.3 Clearing the Memory**

You may want to clear the memory to start afresh with default settings. You can do this as follows:

- 1. Press the [MENU] key to show the main menu.
- 2. Press the [▶] keys to open the SYSTEM menu.
- 3. Select DEFAULT RESET by arrow keys.
- 4. Press the [▶] key to select YES.



SYSTEM menu

5. Press the [▶] key again to select "reset".



# SPECIFICATIONS OF MULTI-PURPOSE LCD DISPLAY MU-120C

#### 1 GENERAL

1.1 Display 12.1 inch SVGA color TFT-LCD, 246 x 185 mm

1.2 Brightness 1,000 cd/m² maximum, 5 cd/m² minimum

1.3 Resolution 800 x 600 (SVGA)

1.4 Viewing angle left/right: 70°, up: 60°, down: 50°

1.5 Input signal RGB ports: VESA (VGA, SVGA, XGA, SXGA)

(0.7Vp-p, Synchronization: TTL level)

DVI port: VESA (VGA, SVGA, XGA, SXGA)

VIDEO ports: NTSC/PAL

#### 2 POWER SUPPLY

12-24 VDC: 4.0-2.0 A

#### 3 ENVIRONMENTAL CONDITION

3.1 Ambient temperature

Display unit -15°C to +55°C

Remote controller +5°C to +35°C

Relative humidity 93% at +40°C

3.3 Waterproofing

3.2

Display unit IPX5 (front panel), IP20 (rear panel)

Remote controller IPX0

3.4 Bearing vibration IEC 60945-4

#### 4 COATING COLOR

N2.5 (not changed)

H

コニット

NAME

Q'TY

000-156-059-10

L=3.5M

DOCUMENT

000-149-089-1\*

DERATOR'S MANUAL

取扱説明書

JM\*-20290-\*

C22-00304-\*

297

**TEMPLATE** 

000-149-091-1\*

7

19AR-X-9851 -4

LCD表示器		MU-120C	_	<u>~·</u>	7-7° №
MULTI-PURPOSE LCD DISPLAY	295	000-012-628-00			CABLE
リモコンセット REMO	REMOTE CONTROLLER SET	RMC-200			<u>**</u>
<i>θ</i> -Σ/////۲	84	19-024-1313-0	_		取扱診
STICKER	122	100-315-270-00			OPERA'
リモコンピ <sup>、</sup> ニルケース	215	14-034-2075-1	_	<u> </u>	型紙
VINYL CASE FOR REMOTE CONTROLLER		100-292-801-10		•	TEMPL,
リモコンキーユニット	173	RMC-200	1	I	
REMOTE CONTROLLER		000-149-069-00			
BATT(MN)	50	R6PKRCP-2	1		
SIZE AA BATTERY		000-142-527-00			

予備品	SPARE PARTS		
予備品	6148	SP19-00101	_
STADE BARTS	\ \ _		
	)	001-403-170-00	

付属品	FP19-00601	_
ACCESSORIES	001-403-200-00	

**ACCESSOR I ES** 

**付属**品

1..1-ド番号末尾の[\*\*]は、選択品の代表型式/1-ドを表します。 CODE NUMBER ENDED BY "\*\*" INDICATES THE NUMBER OF TYPICAL MATERIAL.

TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME. 型式/コ-ド番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

1/1

**FURUNO** 001-403-170-00 CODE NO. 19AR-X-9301 -1 1/1 SP19-00101 BOX NO. P TYPE SETS PER VESSEL SHIP NO. U S E SPARE PARTS LIST FOR QUANTITY REMARKS/CODE NO. DWG. NO. ITEM NO. WORKING NAME OF OR OUTLINE PART TYPE NO. PER VES PER SET SPARE ヒュース゛ FGB0 125V 7A PBF 3 **FUSE** 000-155-831-10 FGBO 7A AC125V 000-549-013-00

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)

FURUNO ELECTRIC CO.,LTD.

MFR'S NAME

型式/コード番号が2段の場合、下段より上段に代わる過渡期品であり、どちらかが入っています。 なお、品質は変わりません。

DWG NO.

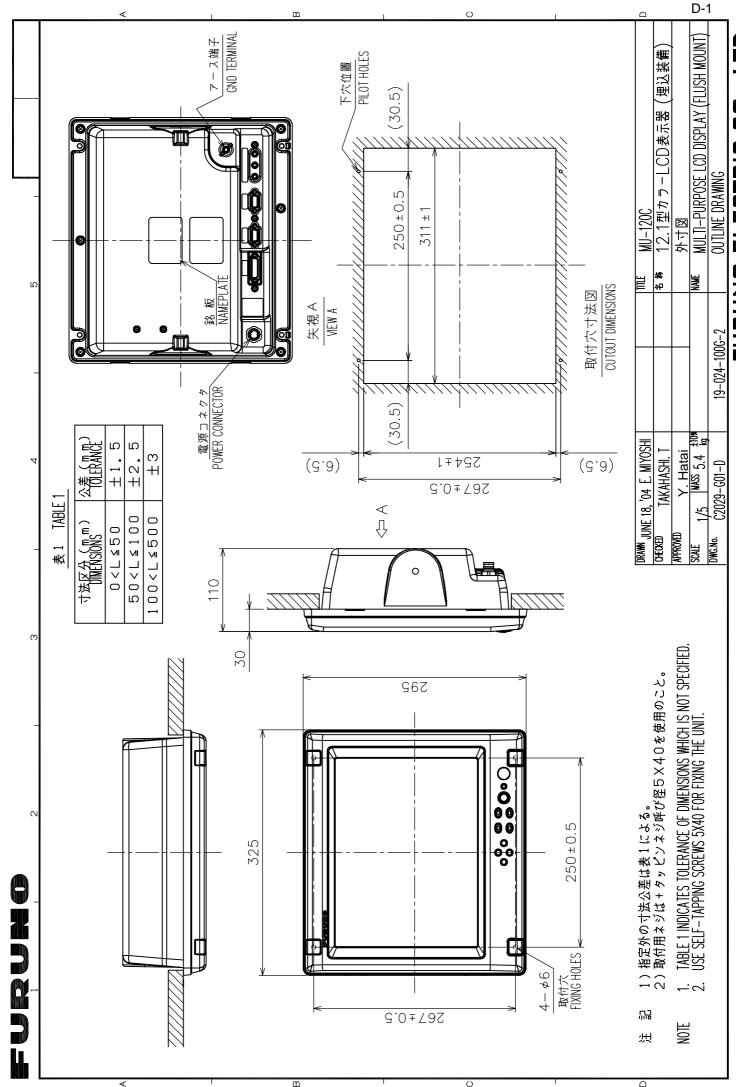
19AR-X-9301

	URUI		CODE NO.	001-403-200-	00	19AR-X-9501 -6	
		7	ГҮРЕ	FP19-00601			1/1
付	属品表						
ACCE	SSORIES						
番 号 NO.	名 称 NAME	略 図 OUTLINE		名/規格 CRIPTIONS	数量 Q'TY	用途/備考 REMARKS	
1	パ <sup>°</sup> ネルカパ <sup>*</sup> - (12) COSMETIC CAP	20	19-024-1: CODE NO.	502-0 100-342-140-10	4		
2	+トラスタッピ <sup>°</sup> ンネシ <sup>°</sup> 1シュ SELF-TAPPING SCREW	φ 5	5X40 SUS CODE NO.	304 000-162-611-10	4		

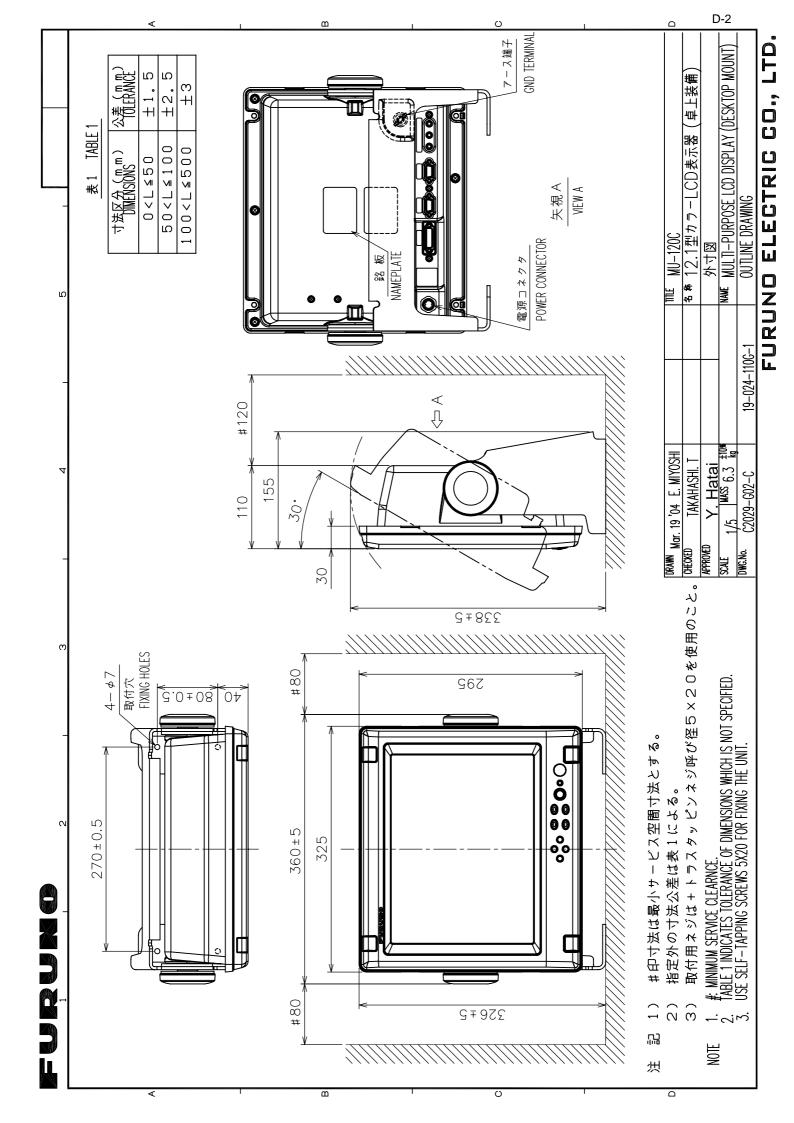
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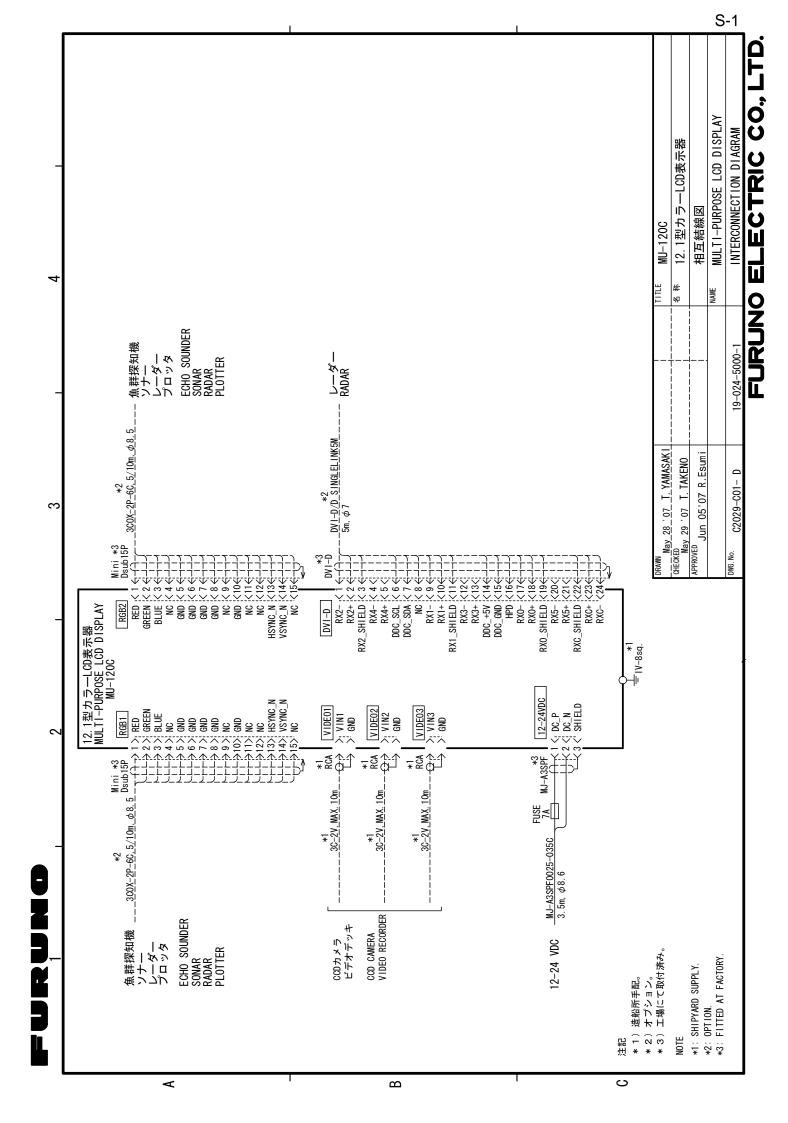
TWO TYPES AND CODES MAY BE LISTED FOR AN ITEM. THE LOWER PRODUCT MAY BE SHIPPED IN PLACE OF THE UPPER PRODUCT. QUALITY IS THE SAME.

(略図の寸法は、参考値です。 DIMENSIONS IN DRAWING FOR REFERENCE ONLY.)



FURUNO ELECTRIC CO., LTD.







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(YOTA) MU-120C

• FURUNO Authorized Distributor/Dealer

A : MAR 2004

B : SEP. 05, 2007



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